

From owner-qrp-1@Lehigh.EDU Fri Mar 22 22:06:16 1996
From: wdzeares@rockdal.aud.alcatel.com
Subject: [5997] Alaska QSO party--any QRP?
Message-ID: <9603221528.AA08032@aud.alcatel.com>

This week-end is the Alaska QSO party and I was wondering if any of our friends in KL7 land are planning to be on hand...and if so is it possible to suggest times and freq. ...maybe let us know what times for different bands are good propagation etc...

Or if the great propagation gurus would give us some suggestions...

Tnx, 72/73 Dennis K3ETS Dallas

From owner-qrp-1@Lehigh.EDU Fri Mar 22 22:06:16 1996
From: BillCombs@aol.com
Subject: [6014] Antenna Support
Message-ID: <960322140348_253155599@emout07.mail.aol.com>

Hi gang,

I want to put up a diople at my new location fed with 450 ohm ladder line as soon as the snow clears. I am planning to string it between a small tree in the front yard to a larger tree in the back, as a sloping diople. I would like to put some sort of mast in the tree to raise the end up a bit. I was thinking about using a piece of PVC. I wonder if anyone has any ideas on this material or other material for the mast and what might be the best way to secure the mast to the tree?

Thanks and 73,

Bill Combs

BillCombs@aol.com

From owner-qrp-1@Lehigh.EDU Fri Mar 22 22:06:16 1996
From: Wayne Barnhart <wayneb@on-ramp.ior.com>
Subject: [6038] ARRL RADIO DESIGNER
Message-ID: <Pine.LNX.3.91.960322171326.8217A-100000@on-ramp.ior.com>

Has anyone out there use the radio designer software from the ARRL. I have used ORCAD, SPICE, TSPICE and Electronic Workbench before. How does the ARRL product compare? How might it evaluate the 49-er circuit?

Thanks

Wayne WB7WHI
Spokane, Wa.

From owner-qrp-1@Lehigh.EDU Fri Mar 22 22:06:16 1996
From: wdzeares@ix.netcom.com (W. Dennis Zeares)
Subject: [6031] Calibrator/external marker source for Argonaut
Message-ID: <199603222318.PAA04070@ix4.ix.netcom.com>

I have an Argonaut and I need a crystal calibrator or some type of xternal marker.. anyone have one used for sale??? what do you members of the group suggest, that is who makes one and what do they cost... thanks, 72 dennis K3ETS Dallas

From owner-qrp-1@Lehigh.EDU Fri Mar 22 22:06:16 1996
From: PaulKB8N@aol.com
Subject: [6034] Collector Quality Argonaut 509 For Sale
Message-ID: <960322192131_175195842@emout10.mail.aol.com>

I have a collector quality Argonaut 509 for sale. This was purchased from the original owner and even includes the original sales slip. This is by far the nicest 509 I've ever seen. I purchased it to use as a travel companion, and just haven't had the heart to expose it to the rigors of the road. This radio has seen little use, so the normal problems like the VFO instability and bandswitch play just don't exist. The price is \$275 plus shipping. There is a complete money back guarantee if this does not meet your expectations, but I'm confident it will!! 72, Paul

From owner-qrp-1@Lehigh.EDU Fri Mar 22 22:06:16 1996
From: JEVERHART@cayman.vf.mmc.com
Subject: [6016] FS at DVRA hamfest
Message-ID: <960322142925.23e642a4@carib.vf.mmc.com>

Gang, this is of primarily local (NJ) interest, but there are list members who may be interested. To others, I apologize for the bandwidth usage :-).

I will be attending the DVRA hamfest in Trneton, NJ this sunday, March 24. I'll have the following rigs for sale in the tailgate area:

Ten-Tec Century 21 80-10 mtr cw xcr 20-30 watts (settable to QRP)

MFJ 9040 40 mtr xcvr approx 5 watts cw

Other assorted stuff!

Look me up in the flea area. You won't be able to miss my bright red Windstar. NJQRP'ers will be converging on me at 10:00 am.

72/73,

Joe E., N2CX

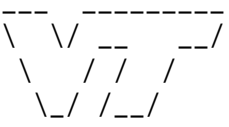
From owner-qrp-1@Lehigh.EDU Fri Mar 22 22:06:16 1996
From: pelt@vt.edu (Randy Pelt)
Subject: [6030] FS: NW8020- 40 Meters
Message-ID: <199603222142.QAA02206@sable.cc.vt.edu>

I have an NW 8020 (40 meters) for sale- \$75 shipped. This rig was built by me about a year/year and a half ago. Was bought from Dan's just before he was abducted by aliens. It is in a Radio Shack case. Works great on both receive and transmit. Worked 5 or 6 foxes using this little rig. The reason I want to sale it is because Bill Kelsey has talked me into buying the TCX210 kit from Hands, and as you all know, they ain't cheap!

I also have an 8020 on 80 meters which I will probably sale when I get the TCX built. If anybody is interested, or needs additional info, e-mail.

Tnx and 72/3

```
*****
*Ranson J. Pelt                                     *
*Internal Audit Manager                             *
*Virginia Tech 0328                                *
*Blacksburg, VA 24061                             *
*(540) 231-9475 FAX (540) 231-4681                 *
*                                                    *
*QST de nz4i      Semper Fi                         *
*****
```



From owner-qrp-1@Lehigh.EDU Fri Mar 22 22:06:16 1996
From: N5EM@aol.com
Subject: [6000] Fwd: Touring with ham radio
Message-ID: <960322111357_253036320@emout04.mail.aol.com>

Forwarded from the Bike-Ham reflector.

Thought someone might like to help this fellow out. Maybe someone with a spare Cascade :-)

Ed

Forwarded message:

From: alanb@polecat.sr.hp.com (Alan Bloom)
To: bikeham@cycling.org
From owner-qrp-1@Lehigh.EDU Fri Mar 22 22:06:16 1996
From: johnhill@freenet.edmonton.ab.ca
Subject: [5993] HR-1680.20m DEAD
Message-ID: <Pine.A32.3.91.960322062144.52538A-1000000@fn1.freenet.edmonton.ab.ca>

Thanks for reading this,

I have a Heath HR-1680 five band receiver and 20M is dead. I checked the output of the HFO oscillator on all bands and there is next to nothing on 20M, the rest are just fine. Are there any quirks to this rig that I should check out before looking for a new crystal (22.895 MHz)?

Thanks,
John...VE6CU...73...

JOHN HILL email: johnhill@freenet.edmonton.ab.ca

Snail Mail: John Hill
17205-114 St.,
Edmonton, AB.,
Canada.
T5X 5Y7

Twisted Pair (phone): (403) 475-9667

From owner-qrp-1@Lehigh.EDU Fri Mar 22 22:06:16 1996
From: JEVERHART@cayman.vf.mmc.com
Subject: [6008] It sure is Friday out!
Message-ID: <960322130923.23e642a4@carib.vf.mmc.com>

From owner-qrp-l@Lehigh.EDU Fri Mar 22 22:06:16 1996
From: JEVERHART@cayman.vf.mmc.com
Subject: [6009] It sure is Friday out! (take II)
Message-ID: <960322131626.23e642a4@carib.vf.mmc.com>

Oops my finger slipped on the keyboard the first time. Sorry aobut that,
chief, let's try again.

It looks like a started a good thread with that variomenter stuff :-).

It's Friday and my mind is wandering. Someone here was reciting:

"There was was a man from Nantucket..."

and it got my writing juices flowing, so here goes:

Friday limerick #1

There once was a ham named Paul,
Who writ postings to qrp-all,
They were conceived with wile,
Bringing to each reader a smile!

Friday Limerick #2

There once was a ham named Chuck,
Possessed of an abundance of pluck,
He sponsored events of diminished power,
And caused qrp hamdom to burst into flower!

There, now I got that out of my system :-0.

72/73,

Joe E., N2CX

From owner-qrp-l@Lehigh.EDU Fri Mar 22 22:06:16 1996
From: Paul Harden <pharden@aoc.nrao.edu>
Subject: [6037] LM380 audio boost WORKS!
Message-ID: <199603230111.SAA29135@zia.aoc.nrao.edu>

Here is the positive feedback modification for the 40-9er to boost the

audio output from the LM380 ... breadboarded and tested only moments ago. It works, and works great. (Schematic below). Measurements based on my 14-pin LM380, but should be virtually identical to the 8-pin LM380.

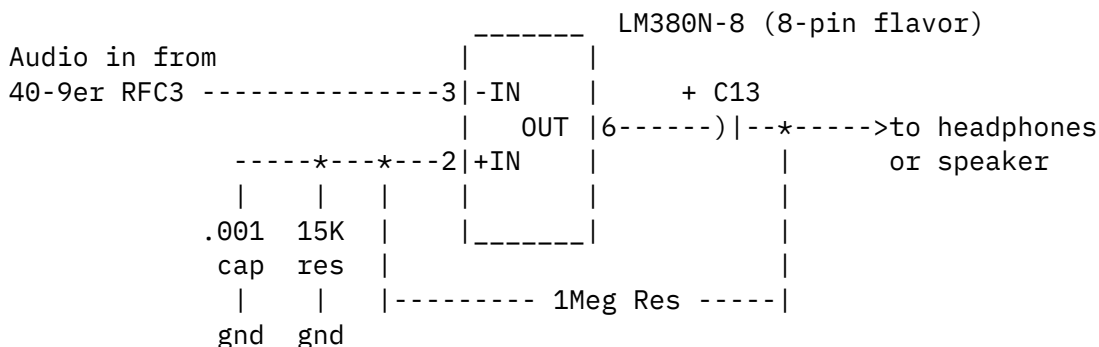
LM380 GAIN PROFILE with a 9V battery (at 8.6v loaded)

NO FEEDBACK CIRCUIT				WITH FEEDBACK CIRCUIT		
Vin	Vout	Av	Gain	Vout	Av	Gain
10mv	400mv	40	32dB	1200mv	120	42db
20	850	42	32	3000mv	150	43
30	1500mv	50	34	5100mv	170	45
40	1800	45	33	6400mv	160	44
50mv	2200mv	44	33	Output saturates above 50mVpp audio input		
60	2100	35	31			
70	2000	29	29			
80	2000	25	28			
100mv	2000	20	26			

Where: Vin=input test sine wave, peak-peak voltage
Vout=output sine wave, p-p, with 8-ohm load (speaker)
Av=voltage gain (Vout/Vin)
Gain=db 20log(Av)

SUMMARY: On both headphones and speaker, kicking in the feedback circuit makes the audio sound 2-3 times louder. I could hear audio in the earphones with Vin down to 4mV. If it were CW, I could have copied it. It is a 3 component modification, which can be added on the circuit side of the board, takes no extra board space, and pretty easy to do.

MODIFICATION CIRCUIT



MODIFICATION STEPS FOR THE 40-9er:

1. Remove power (hey, all instructions always start with that one. You don't wanna get knocked on your butt from that 9v battery!)
2. Cut trace on LM380 to isolate pin 2 (+IN) from ground.
3. Solder 15K resistor on LM380 from pin 2 to pin 4 or 5 (ground).

4. Solder 1Meg resistor from (-) side of C13 to LM380 pin 2.
5. Solder .001 cap across the 15K resistor, or from pin 2 to ground.
6. Apply power; there should be a very noticeable increase in audio gain.

I did not try different values for the feedback resistors. If you roll your own, make the resistor from pin 2 to ground to be .015 times the feedback resistor ... or, the same ratio as above. The cap from pin 2 to ground prevents audio oscillation and can be .001 to .1 range. Frankly, my sloppy breadboard of the above didn't need the cap, but added it as a precaution anyway.

Try it, have fun, work somebody with it, and let us know how it went. And, I think us QRPers are the first human beings to actually employ the positive feedback design from the LM380 application notes AN-69.

Have a good weekend,
Paul NA5N

From owner-qrp-l@Lehigh.EDU Fri Mar 22 22:06:16 1996
From: Scott Rosenfeld NF3I <ham@w3eax.umd.edu>
Subject: [6021] Manual (or even less) for HW-8
Message-ID: <Pine.3.89.9603221408.A1759-01000000@w3eax.umd.edu>

I know there are a bunch of them out there.

My friend Boun (N3HXV), who's just preparing to subscribe to QRP-L, picked up a HW-8 last year. He lives in an apartment and really, really wants to get it working properly.

He worked for years as a bench tech repairing Motorola FM stuff in SE Asia, and came here and got his EE in 1990 (we graduated together).

He's very technically competent, and all he really needs is a schematic and alignment procedures to get this puppy up and running again.

Please forward replies to

boun@w3eax.umd.edu

Thanks!

* Scott Rosenfeld NF3I Burtonsville, MD FM19 QRV 80-10/6/2/440 *
*** VHF @ <25w, HF @ <5w *** Save a cake, pound BRASS instead ***
* 138 cfd with dipoles * QRP-L #147 QRP ARCI #9054 DXCC/WAS/WAC *
* 301-549-1022 h / 301-982-1015 w * 145.490- 147.225+ PL 156.7 *

From owner-qrp-1@Lehigh.EDU Fri Mar 22 22:06:16 1996
 From: Paul Harden <pharden@aoc.nrao.edu>
 Subject: [6018] More LM380 audio out/UPDATE!
 Message-ID: <199603221909.MAA18350@zia.aoc.nrao.edu>

After some of the email about oscillations, made some time last night to play around with the LM380. I only have a 14-pin flavor, not the 8-pin, but presumably there should be little difference.

**I MADE AN ERROR in the ratio's I reported in my first post on the feedback resistor (R1) and the +IN shunt to ground (R2). (That's what I get for trying to depend on memory). The 470K and 10K ratio's WILL NOT WORK. Looking on my notes at home, I used 470K and 6.8K. The positive feedback must be limited to <300; the above ratio yields 2500, which would make it an oscillator, as a few of you noted. 6.8K is close to 10K, but in this case, close, but no cigar. SORRY to all who tried it in vain.

Here's the closed loop gain equation from application notes AN-69:

$$A_v(\text{closed loop}) = \frac{-A_v}{1 - \frac{A_v}{1 + R_1/R_2}}$$

Where:
 A_v =no-feedback voltage gain ~50
 R_1 =feedback resistor
 (from C13 output to +IN input)
 R_2 =resistor from +IN to ground

You can use this to see what resistors from your junk box to use. As a test, use $A_v=50$. The example in AN-69 calls for $R_1=1M$ and $R_2=15K$. This works out to $A_v(cl)=192$. My 470K and 6.8K combination is $A_v(cl)=172$. In short, for about a gain of 200, the resistor from +IN to ground (R_2) should be $R_1 \times .015$ or so.

WITHOUT adding the 200 gain positive feedback mod, here's what I got on the LM380, wired similar to the 40-9er:

GAIN PROFILE with a 9V battery

Vin	Vout	Av	Gain (dB)	
10mv	400mv	40	32	Where Vin=input sine wave, p-p Vout=LM380 output, p-p with 8-ohm speaker as load Av=voltage gain Gain(dB)=20logAv
20	850	42	32	
30	1500mv	50	34	
40	1800	45	33	
50mv	2200mv	44	33	
60	2100	35	31	

<-- Gain compression starts here

70	2000	29	29
80	2000	25	28
100mv	2000	20	26

FREQUENCY RESPONSE

Freq.	Av	Gain(dB)	
10Hz	31.8	30dB	
20Hz	38.6	32	
100Hz	45.5	33	
300Hz	45.5	33	
500Hz	45.5	33	
1KHz	45.5	33	Frequency response measured with test Vin=22mV(p-p) in for Vout=1000mV at 1 KHz for reference.
3KHz	54.5	35	
5KHz	52.0	34	
10KHz	50.0	34	Test signal applied to -INPUT, +INPUT grounded (40-9er configuration)
20KHz	50.0	34	
100KHz	50.0	34dB	Pretty darn flat from 20Hz to 100KHz

DC Current draw on the LM380 (14-pin version) at 9v was 8.5mA.

Note that with a 9v battery, the stated VOLTAGE gain of 50 is actually quite close. I was at first afraid that was acheivable only at +12v.

After doing the above last nite, my eyelids failed closed, so I did not add the positive feedback mod yet. I will do that ASAP and report the above gain and frequency response data with the positive feedback incorporated.

In the meantime, stick to the two recommended feedback resistor values above (1M/15K or 470K/6.8K) or calculate your own ratio from the formula.

And again, sorry the one resistor ratio I posted was erroneous. And also, do add a .001 or so across R2 (+IN to ground).

Paul NA5N
Licensed KNOWcoder

From owner-qrp-1@Lehigh.EDU Fri Mar 22 22:06:16 1996
From: Michael Marmor <marmor@tigger.jvnc.net>
Subject: [6032] New Jersey QRP Club Web Page
Message-ID: <Pine.SUN.3.91.960322182404.10868A-100000@tigger.jvnc.net>

qrp-1 gang,
I would like to formally announce the New Jersey QRP Club Web Page!

The URL is:

<http://www.ges.com/~marmor/>

Check it out!

73 de AA2UJ

--

Michael Marmor (AA2UJ)	Phone: 1-609-897-7318	GES, Inc. (JvNCnet)
Technical Consultant	-or- : 1-800-35-TIGER	3 Independence Way
marmor@tiger.jvnc.net	Fax : 1-609-897-7310	Princeton, NJ 08540

<http://www.ges.com/~marmor/>

From owner-qrp-1@Lehigh.EDU Fri Mar 22 22:06:16 1996

From: SYDV00A@prodigy.com (MR FLOYD E SMITHBERG)

Subject: [6006] NW8020 20M XMTR

Message-ID: <013.04153595.SYDV00A@prodigy.com>

Hi Preston,

Yes, think I have my 20M NW8020 tamed down now. Was gettting about 0.5W reflected but assumed it was largely LF spurs as the half wave LP filter 'should' take care of most harmonics. I checked output from around 3-14MHz and found a number spots with appreciable output, so tried a number of fixes. Added 180pF collector to gnd at Q8 final...this really helped but then replaced it with 36V Zener (used 5W as couldn't find smaller 1W). This Zener had 375pF capacity and thought it too high but didn't effect power out at fundamental so stayed with it. Also added 33 ohms from base to gnd at Q8....higher values had no effect. Also changed C56 to .001 and C58 to .01.....now can twist ant tuner controls and rig doesn't take off. Tuning T4 peaks up ok with no erratic jumps in output and get full 5W out. The LF spurs appear to be reduced and the reflected power on my HB W7EL wattmeter is now below 0.001W. These worked for me, try them if you are having similar problems and let me know how you make out.

73 Floyd NQ7X

PS.Don't think a 7 pole should be necessary....problem is probably due to spur components of the mixer....not nice clean output like a crystal or simple vfo. Good luck!

From owner-qrp-1@Lehigh.EDU Fri Mar 22 22:06:16 1996

From: bfollett@ditell.com
Subject: [6033] QRP++
Message-ID: <199603222330.QAA15540@orion.ditell.com>

Gang:

I received my "new, improved" QRP+ a couple days ago, and Larry East asked:

<<Have you used it on SSB yet? The fact that mike gain, speech compression and ALC are all under automatic control is a feature I'm not sure I'd like -- guess I just like to diddle with knobs too much.>>

Its true, you have no control over the mike settings. I wired up an old ICOM HM-46 clip-on mike designed for a HT, and gave it a try this afternoon. My first call was ZF2VW in Grand Caymens on 17M. I was the 2nd call he answered, and he had no trouble copying me. He was a 58 and gave me a 53. So...It doesn't work at all like the older version on SSB.

I did listen to my signal on my commerical receiver, and as reported earlier, it sounds like a highly compressed signal...But hey, it works, and is a good idea for qrp in my opinion. If I was running a linear, I guess I could afford to xmit commercial quality voice :-)

Needless to say, I am very pleased with the new model. The keyer works well, I worked the fox last nite with it, and my external keyer works perfectly.

72, Bob

Bob Follett WA7FCU, QRP-L # 129, NorCal, ARCI, 10-10
2861 Estates Dr. VOICE: 801.649.6457
Park City, UT 84060 Home Office E-mail: bfollett.ditell.com

From owner-qrp-l@Lehigh.EDU Fri Mar 22 22:06:16 1996
From: "David Kreinberg" <kreinbd@ccgate.dl.nec.com>
Subject: [6026] R5 CONFUSION!
Message-ID: <9602228275.AA827530969@smtpgw.ccgate.dl.nec.com>

Well, I'm a bit confused (what else is new,
didn't eat my raisan bran this a.m. maybe
that's what's wrong!)

Anyway, about my message concerning my
ground mounting the R5 vertical I'll soon be
inheriting: I'm getting conflicting posts -

some folks are saying that ground mounting is a bad idea, put it up in the air on a chimney or other tall structure. Others are saying that ground mounting is ok.

In the bit I've read and know about verticals, most folks say that putting a vertical high in the air does little or nothing to improve antenna performance, so mounting near or on the ground is honky-dory. Is this not true? I'd hate to spend a whole day setting this antenna up on the ground, only to kick myself because it should've gone on my chimney!

Also, even tho the R5 has the 4 short counter-poise wires at the base, will adding radials add, hurt, or do nothing for this type of antenna?

Again, I welcome and thank you all for the wealth of knowledge on this list!

72 de Dave KK5HA

From owner-qrp-1@Lehigh.EDU Fri Mar 22 22:06:16 1996
From: "David Kreinberg" <kreinbd@ccgate.dl.nec.com>
Subject: [6004] R5 INSTALL.
Message-ID: <9602228275.AA827504253@smtpgw.ccgate.dl.nec.com>

Folks:

As mentioned earlier, I am going to get a Cushcraft R5 vertical soon.

I've never installed a "real" vertical before (made some homebrews out of wood, tubing, etc.), so I'm not sure how to install the critter.

I'll assume that the antenna will come with a manual which may suggest ways to mount it, however, I know some of you folks could give me some real world installation do's and don'ts.

I will be ground mounting the antenna in my back yard. My plan is to dig a hole and cement a 5' pipe so that

3' are in the ground/cement and 2' are on top of the soil. I'll mount the antenna to the exposed pipe with U-bolts. I'm not sure if the thing comes with a few radials, but adding more is no problem and I can bury as many needed to make it more effective. Also, is guying necessary for the R5? I think the height is about 25'. We can get very high winds here in Texas, so this is probably a good idea, yes?

If this plan doesn't sound good, please let me know. All ideas are welcome.

Thanks and 72 de Dave KK5HA

From owner-qrp-1@Lehigh.EDU Fri Mar 22 22:06:16 1996
From: Richard Wilkerson <wd6fdd@lasernet.com>
Subject: [6036] rigs
Message-ID: <60322170008\$71C7@lasernet.com>

Can someone tell me what is the difference between the two rigs..Pixie 2 and the 40-9er???

thanks 73's Rich wd6fdd.

From owner-qrp-1@Lehigh.EDU Fri Mar 22 22:06:16 1996
From: SYDV00A@prodigy.com (MR FLOYD E SMITHBERG)
Subject: [6042] ScQRPions at Whitetanks
Message-ID: <013.04191078.SYDV00A@prodigy.com>

Alerting all ScQRPions!! Pre-to the field test outing location. Just talked to Brian W5VBO on 2M simplex. He is at the Whitetanks campsite and informed me that the regular campground is already full but he is setup in the overflow area on Willow Creek Rd. The road is well marked and will be found BEFORE you get to the regular campground..look for the street sign, make a left and proceed til you see Brian's camper, antennas and car his wife drove. Brian and XYL are only ones there tonight and report a gorgeous, clear view of Phoenix and The Valley of the Sun. I will be going out early tomorrow morning.....hope to see ya'all there.

Floyd NQ7X Phoenix ScQRPion #2

PS.....Anyone else in the area is welcome to come see the ScQRPions in action. Go west on Olive Rd to the White Tanks State Park.

From owner-qrp-1@Lehigh.EDU Fri Mar 22 22:06:16 1996
From: Joseph White <jhw@es.rti.org>
Subject: [6012] Small keyer board for QRP rig.
Message-ID: <Pine.ULT.3.90.960322131016.6441C-1000000@ranger>

I want to put built-in keyer in my Sierra. Due to limited space, I would like to use the smallest board available, and would like one with minimum controls (i.e., just a speed control) so I don't have to mount a lot of stuff in the case. A keyer based on the Curtis 8044ABM chip should do everything I need. The implementation of this keyer described in my 1993 ARRL Handbook uses a 2-inch by 2-inch (approx) board that includes a keying relay, audio sidetone, weight control and the circuitry for speed readout. Are there commercially available PC boards based on this chip (or keyer kits) that don't have these features and have smaller dimensions?

You other folks that have installed a keyer in rigs like the Sierra -- what did you do?

Thanks in advance,
joe WA4GIR jhw@rti.org

p.s., I get the digest so I'd appreciate direct replies. If response warrants, I'll post a summary. Tnx.

From owner-qrp-1@Lehigh.EDU Fri Mar 22 22:06:16 1996
From: burdick@interval.com (Wayne Burdick)
Subject: [5986] Speaking at EMARC meeting Friday night (Los Altos, CA)
Message-ID: <v0213052ead77e7ca0c38@[199.170.106.28]>

Hi gang,

If you're not busy and would like to crash the E-MARC meeting tomorrow night, feel free. I'll be there, gesticulating wildly, promoting QRP, and showing some color renderings of what may be the next Wilderness kit. (Hint: it's 2 x 5 x 5 inches, exploits the perceptual effects of crystalline chemical processes, and talks to you.) There will of course be a live demo. Nudity is unlikely, however.

Love to see you there. Maybe we can down a brew afterwards, too.

73,
Wayne
N6KR

* * *

Where: The Covington School, Los Altos, in "the board room"--look for huge letters on building.

When: Friday, March 22. Meeting starts at 7PM, presentation at 8:00.

Call-in: 145.23

Directions

E. on El Monte off of 280
Cross Foothill
R. at next light
L. at next Y
100 yards, L. into school yard

From owner-qrp-1@Lehigh.EDU Fri Mar 22 22:06:16 1996
From: Bob_Tellefsen-CNSE97@email.mot.com
Subject: [6007] SWR bridge for NorCal 40
Message-ID: <M742179.001.010s0.1.960322180739Z.CC-MAIL*/OU=LMPCC10/OU=ILBE/
PRMD=MOT/ADMD=MOT/C=US/@MHS>

For Mike James KE0CH

Your question about the SWR bridge reminded me of some I've seen done without the meter. In a NC40, you are just tuning for max forward smoke and minimum reflected. You could use two LEDs for the purpose, and save the panel space for something else like a KC-1. Also, the two LEDs would eliminate the need for a switch. I think I remember seeing one done this way at a NorCal meeting sometime in the last half year.

First use of the idea I remember seeing was a grid-dip meter in QST some years ago, with the LED switched for max indication as an absorption wavemeter, or min indication as a dip meter. Someone else may know the issue, but the idea has been around a while.

Good luck

Bob N6WG

From owner-qrp-1@Lehigh.EDU Fri Mar 22 22:06:16 1996
From: Mel Evans <101366.3072@compuserve.com>
Subject: [6022] The last HW9, UK style
Message-ID: <960322200043_101366.3072_JHP147-1@CompuServe.COM>

Hi gang,

Well, the HW9 arrived to-day, and it's just like Christmas! I'd forgotten just how good the Heathkit range was.

There's all the little goodie bags, and there's even the check chart, (a sort of lay-on guide) for the bandoliered parts. There's the manual, the schematics, the detail layouts and instructions, (eat your hearts out, especially Dick and Sheldon) all neatly numbered and tagged.

Then there's the case, a real professional job> You know you've got to make a good job of the kit to match up to it, and it's gonna look the part against any rig when it's finished!

I intend to enjoy building this rig! I want to do it as standard to begin with, then add the WARC bands, and then finally do any mods from the HW9 handbook last. If anyone out there in Cyberland can offer advice as to which mods you consider essential, e-mail me please.

Likewise,, if you've got an unbuilt HWSA-9 WARC kit, or a PSA-9 power supply kit, let me know. Maybe we can deal?

72 and 73 de Mel
GM6JAG
Edinburgh, Scotland

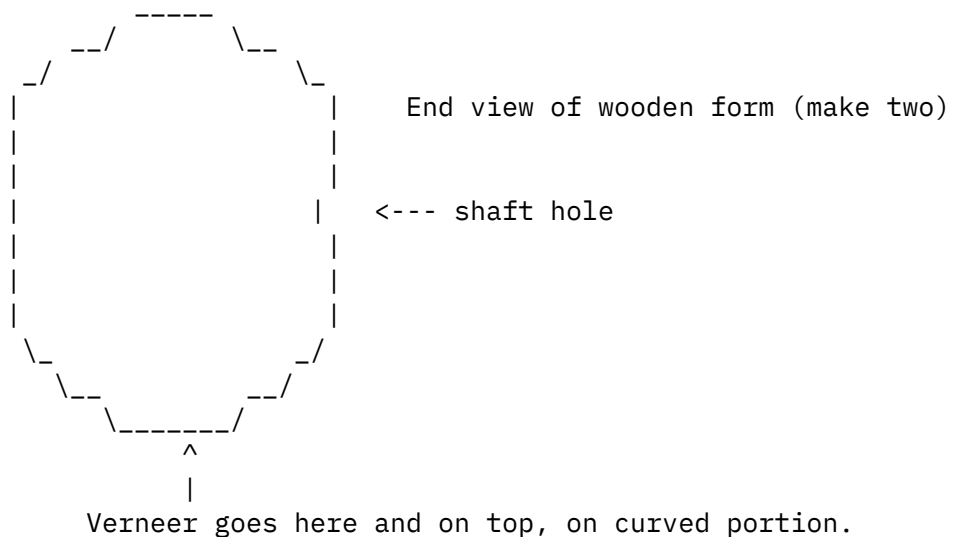
From owner-qrp-1@Lehigh.EDU Fri Mar 22 22:06:16 1996
From: bmitchel@kodak.com (Brad Mitchell)
Subject: [5992] tuners
Message-ID: <9603221221.AA19615@iiatasun.cba.Kodak.COM>

Well, I finally did it, I found and procured a Ten Tec tuner.
Model 277. I cleaned it up, and put it on my Argossy.

Wow! this thing will tune just about anything!
73 Brad WB8YGG

From owner-qrp-l@Lehigh.EDU Fri Mar 22 22:06:16 1996
From: torell@sicom.com (Kent Torell)
Subject: [6023] variometer construction
Message-ID: <v02130502ad78a6fad9f8@[192.91.202.41]>

My great uncle had some in some 1930's radios he built. As I recall, they used cotton covered wire on homemade wooden forms. The forms were covered on the top and bottom by thin wood verneer. Looked like a 4" pipe about 4" long with the edges sliced off. He built a fixed, outer coil with a rotateable inner coil on the same-shaped tho smaller form. The wire was wrapped end over end. He used varnish for Q dope. (I didn't know what it was, so I don't recall how he connected the wires of the coils). You could rotate the inner coil 180 degrees.



Now, for inductance, a 30 turn coil with 4 inch diameter is about 95 uH, so the max range for this guy is 20 uH to 350 uH (say). That's about right for 1000 pf capacitors and broadcast band stuff, which was what he built.

72, ab7oa

Kent Torell torell@sicom.com 602-483-2867 x40
SICOM 7585 E. Redfield, #202 Scottsdale, AZ 85260

From owner-qrp-1@Lehigh.EDU Fri Mar 22 22:06:16 1996
From: mizrahi@svlhp8.scs.philips.com
Subject: [6035] RE: 49-er measurements
Message-ID: <9603230051.AA20386@svln20.scs.philips.com>

I thought it's interesting to compare the power output of Alan W6RCL to my version. He was using a 2N3866 final, while mine is a 2SC799 which arrived with the Norcal parts kit.

My measurments were done by looking at the peak-to-peak voltage across a 50 Ohm load at the end of a 12" of RG-58/A coax fed through a BNC connector using a digital scope. The output filter uses a molded 22 uH choke.

It's interesting to see the advantage of the 2N3866 at lower supply voltages (at the NiCad-Alkaline range) and the disadvantage at the higher supply voltages.

Vcc		Power Output	
		2N3866	2SC799
6.75	-	0.16	
7.0	0.25	-	
7.2	-	0.20	
8.0	0.34	0.28	
9.0	0.42	0.42	
10.0	0.52	0.56	
11.0	0.60	0.70	
12.0	0.67	0.84	
13.0	0.75	-	
13.8	-	1.07	
16.0	-		1.34

ORI AC6AN

From owner-qrp-1@Lehigh.EDU Fri Mar 22 22:06:16 1996
From: Hank Kohl <k8dd@sun.tir.com>
Subject: [5988] Re: acronyms
Message-ID: <9603220616.AB15372@sun>

At , you wrote:

>I'm all ears for some more industry mla's (multi letter acronyms).

>Ref: RF connectors

> 1. SMA

> 2. BNC

> 3. TNC

> 4. N

>

>72,

>Kaye KD8EK

>

>

>

Ah, but MLA's are subdivided into two classes:

TLA's and FLA's.

Haven't seen any acronyms pertaining to acronyms other than those two.

A TLA is a TLA for a TLA *

An FLA is a TLA for a FLA **

Confused? Well in an attempt to KISS, we got FUBAR in BFE (SU1), but we did it ASAP for the VIP on the QRP-L.

Confused? Well when you have multi TLA's mixed with some FLA's....Well, DILLIGAS! And if this is all too confusing - BOHICA.

Confused? And we haven't gotten to things like TCP, RIP, SAP, NLM, VAP, NCP, NDS, NLSP, OSPF, IGRP, RTMP, IPX, SPX, LAN, WAN, MAN, ARPA, HDLC, SDLC, SLIP, PPP, MPR, RSUP, VLXM, EIGRP, MAC, LLC, FTP, TFTP, RJE, SMTP, SNMP, RLP, NTP, Didn't know I knew that many TLA's and FLA's.

The first five who can identify the MLA's in the last three paragraphs will be eligible for a free beverage at the hospitality sweet at Days Inn South Thursday or Friday night Dayton weekend. Extra credit for defining vendor specific MLA's. e-mail me direct. Posting your answers to the list will be an automatic negative extra credit.

Literal translation:

* A TLA is a Three Letter Acronym for a Three Letter Acronym

** A FLA is a Three Letter Acronym for a Four Letter Acronym

Confused? Me too!

73 Hank

*/ Hank Kohl K8DD k8dd@tir.com

* / MI-QRP QRP-ARCI G-QRP NorCal
* / ARRL/LM QCWA/LM QCAO/LM

From owner-qrp-1@Lehigh.EDU Fri Mar 22 22:06:16 1996
From: prvalko <prvalko@oakland.edu>
Subject: [5996] Re: acronyms
Message-ID: <Pine.OSF.3.91.960322092349.19834A-100000@saturn.acs.oakland.edu>

On Fri, 22 Mar 1996, Hank Kohl wrote:

> Confused? And we haven't gotten to things like

Oh gee Hank, this is kid's stuff...

TCP - totally crap protocol
RIP - real idiotic protocol
SAP - stupid asinine protocol
NLM - no longer marketed (See BOB)
VAP - very archaic protocol
NCP - needlessly crashes protocol
NDS - network deviant's service (see AOL)
NLSP - new low speed protocol
OSPF - older slower protocol filter
IGRP - ineffective generally rotten protocol
RTMP - really terrible mainframe processor
IPX - I prefer XENIX
SPX - spool proof (trans)x(port)
LAN - load all networks
WAN - wipeout all networks
MAN - no longer used (see NOW)
ARPA - armed resident population annihilators (see ATF)
HDLC - High-level Data loses connection
SDLC - Some Data Lost Constantly
SLIP - Serial Lines Invariable Perish
PPP - What K8DD does after too many 807s
MPR - Multi Processor Ridiculousness
RSUP - radically slow usenet pop
VLXM - visually lovely, X-window monitor
EIGRP - Enormous Immense Gigantic Rotten Protocol (see NFS)
MAC - Mostly Academic's Computer
LLC - Logical Link Crash
FTP - FOUND THE PICTURE! (in uunet see, "I found the nude <insert name>!")
TFTP - That's Fake, Turd Pounder (see FTP)
RJE - reliable, just expensive

SMTP - slow mail transport protocol
SNMP - slow network mail provider
RLP - randomly loses packets
NTP - never transports packets

> Posting your answers to the list will be an automatic negative extra credit.

Sue me. I'll enjoy the frostie at the Hospitality Suite, Hank. Make it my favorite brand... COLD :-)

73! =paul= wb8zjl

From owner-qrp-1@Lehigh.EDU Fri Mar 22 22:06:16 1996
From: torell@sicom.com (Kent Torell)
Subject: [6005] Re: Alaska QSO party--any QRP?
Message-ID: <v02130500ad788c84ace0@[192.91.202.41]>

>This week-end is the Alaska QSO party ...
>... if the great propagation gurus would give us
>some suggestions...

Not a guru, but spent 45 minutes with our prop forecasting programs (just learning how to drive them :-)) so, caveat emptor...Computed from Fairbanks, which is in the center of Alaska. Just at the edge of the auroa oval, but the forecast is for little aurora activity, and the geomagnetic fields should be quieting down for the weekend (then again....)

Forecast is in UTC hours (mountain standard time is -7 hours from utc)

QTH	80	40	20	
Seattle	07 - 16	16 - 03	-	1700 utc best time
Los Angeles	06 - 15	15 - 20	-	1500 utc best time
Dallas	-	14	18 - 03	
Minneapolis	10 - 13	15 - 18	-	1500 utc best time
Atlanta	-	12 - 14	18 - 02	
Boston	10 - 12	14 - 15	(22 - 24)	

Atlanta and Dallas are a long ways away, so these times are your best shot. All these programs use statistical averages, so maybe you'll get lucky!

72, ab7oa Listen for the scqrptions from central arizona this weekend

Kent Torell torell@sicom.com 602-483-2867 x40
SICOM 7585 E. Redfield, #202 Scottsdale, AZ 85260

From owner-qrp-l@Lehigh.EDU Fri Mar 22 22:06:16 1996
From: Mike Robinson <miker@cc.com>
Subject: [6019] Re: Antenna Support
Message-ID: <9603221951.AA21217@voder.nsc.com>

Bill,

Most PVC isn't strong enough to do what you want.
Unless you get into the 2 or 3" diameter stuff.
It bends and reforms over time.

While there was construction going on around me,
I came up with two boards, each about 18' long.
Both were from a 2x4 that was cut down the
middle to make 2 2x2's. They make excellent
masts. I pounded one of those garden stakes
in past the blades, then hose clamped the 2x2
to it.

BTW, you'll want to put your antenna up before
the snow clears. Even during a storm would be
better. Everyone knows that antennas raised
during adverse conditions work much better than
those raised during a perfect spring day. ;^}

It has something to do with the amount of blood and
pain put into it. One of those Karma deals.

=====
7.3 de Michael AA0UB miker@cc.com michael@frii.com
 http://www.frii.com/~michael
 QRP-L #126 Norcal #857 CQC #180
=====

From owner-qrp-1@Lehigh.EDU Fri Mar 22 22:06:16 1996
From: "Harvey D. D. Hetland" <HDHETLAND@paccd.cc.ca.us>
Subject: [5987] Re: Fox Report 96/03/21 (22utc)
Message-ID: <3B5246474C1@manage.paccd.cc.ca.us>

It was a sweet pleasure to catch the fox from W6BAB tonight, because it represented the result of much work. There are three towers at the W6BAB club station antenna farm all about 25 years old and a total of 27 rusty guy lines with no insulators. The fourth harmonic of a broadcast station on 1110 kHz adding to the second harmonic of a station on 1300 kHz all created and mixed in the numerous diode junctions created a product on 7040 kHz (plus a host of others every 10 kHz) and the sidebands covered many foxes during the past weeks. On those evenings when I could get home early enough or during school recesses I managed to catch a few foxes from home (N6MM) where a two element beam and 5 watt OHR 400 sure helped. For the immediate present most of the guy lines are insulated at the guy anchors with the jacket of RG8 stuffed between the jaw of the turnbuckle and the thimble of the guy line. A big box of insulators and rolls of guy wire arrived during this week and by the next fox season W6BAB will be prepared for fox hunting. Catching VE7CQK made all the work finding the sources of the intermod worthwhile (BTW a NorCal 40A, gell cell battery and a small sniffing loop makes the locating of noise and intermod a lot easier).

I joined the hunts mid-season and I really enjoyed them (congratulations and thanks to K5F0). I am looking forward to the 30m activity this summer. I made up the 30m module yesterday for the Sierra I use at W6BAB and this weekend one of the new guy lines to be installed will contain a 30m dipole, which will be the first WARC band antenna in the W6BAB farm. At least I will have no classes to teach during the summer, so I will be looking forward to learning more about the 30m activity plans. In the fall semester I will have an hour conference time between my evening classes two nights a week, so I am optimistic that I will be able to improve the W6BAB fox total.

73, Harvey, N6MM (trustee of W6BAB, Pasadena City College).

NorCal 1441, QRP-L 318 and QRP ARCI 51 (got my old number back!)

From owner-qrp-1@Lehigh.EDU Fri Mar 22 22:06:16 1996
From: Jerry <jfelts@rapidcity.com>
Subject: [5984] RE:FS ARG0 509
Message-ID: <199603220504.WAA02261@host1.rapidcity.com>

Thanks for all the E-mail on the Argo 509. I believe it has been sold.

From owner-qrp-1@Lehigh.EDU Fri Mar 22 22:06:16 1996
From: Jerry <jfelts@rapidcity.com>
Subject: [5985] RE:FS ARG0 509
Message-ID: <199603220505.WAA02268@host1.rapidcity.com>

>To: qrp-1@Lehigh.Edu
>From: Jerry <jfelts@rapidcity.com>
>Subject: RE:FS ARG0 509
>
>Thanks for all the E-mail on the Argo 509. I believe it has been sold.
>

From owner-qrp-1@Lehigh.EDU Fri Mar 22 22:06:16 1996
From: JEVERHART@cayman.vf.mmc.com
Subject: [6011] Re: It sure is Friday out!
Message-ID: <960322134638.23e642a4@carib.vf.mmc.com>

Well, the first twoow weren't quite in limerick format butthere's one that is:

There once was a Young ham named Nils,
Who misplaced his mind-calming pill,
He set out to pun,
Thinking only of fun,
But ended up re-writing Congressional bills.

72/73,

Joe E., N2CX

From owner-qrp-1@Lehigh.EDU Fri Mar 22 22:06:16 1996
From: prvalko <prvalko@oakland.edu>
Subject: [6013] Re: It sure is Friday out! (take II)
Message-ID: <Pine.OSF.3.91.960322134816.30877B-100000@saturn.acs.oakland.edu>

On Fri, 22 Mar 1996 JEVERHART@cayman.vf.mmc.com wrote:

> Oops my finger slipped on the keyboard the first time. Sorry aabout that,
> chief, let's try again.

> Friday limerick #1
>
> There once was a ham named Paul,
> Who writ postings to qrp-all,
> They were conceived with wile,
> Bringing to each reader a smile!

A ham, N2CX, named Joe,
Thought he'd try giving Lim'ricks a go.
He *thought* his were fine
but they lacked the fifth LINE!
Try again Joe, and please, add one mo'.

73! =paul= wb8zjl

From owner-qrp-1@Lehigh.EDU Fri Mar 22 22:06:16 1996
From: Bob Patten <n4bp@bcfreenet.seflin.lib.fl.us>
Subject: [6015] Re: It sure is Friday out! (take II)
Message-ID: <Pine.3.89.9603221408.A26970-0100000@bcfreenet.seflin.lib.fl.us>

On Fri, 22 Mar 1996, prvalko wrote:

> A ham, N2CX, named Joe,
> Thought he'd try giving Lim'ricks a go.
> He *thought* his were fine
> but they lacked the fifth LINE!
> Try again Joe, and please, add one mo'.
>
Hurry sunspots!

From owner-qrp-1@Lehigh.EDU Fri Mar 22 22:06:16 1996
From: Glen Leinweber <leinwebe@mcmail.cis.mcmaster.ca>
Subject: [6017] Re: It sure is Friday out! (take II)
Message-ID: <1996Mar22.142638-0500@[130.113.234.7]>

>> There once was a ham named Paul,
 [...bad limerick deleted...]

>
>A ham, N2CX, named Joe,

[...slightly better limerick deleted...]

Joe, Paul,

Now stop, just S T O P this before it gets out of hand.

a card-carrying member of the QRP police,
Glen VE3DNL

ObQRP:

No fox heard last night, but boy, the band was 'ahoppin here
in snowy Hamilton.

From owner-qrp-1@Lehigh.EDU Fri Mar 22 22:06:16 1996

From: Steve Greene <sgreene@washsq.com>

Subject: [6024] Re: It sure is Friday out! (take II)

Message-ID: <Pine.LNX.3.91.960322152324.14438B-100000@mercury.washsq.com>

>
> >> There once was a ham named Paul,
> [...bad limerick deleted...]
>
> >A ham, N2CX, named Joe,
> [...slightly better limerick deleted...]
>
>
> Joe, Paul,
> Now stop, just S T O P this before it gets out of hand.

The god of Thunder went for a ride
Upon his favorite Philly

I'm POOR, he cried (must've just been after Dayton!),
And the horse replied,
You forgot your, PADDLE, Pilly.

Best I can do on short notice & it's 3:15 on a Friday anyway.

I think this HAS gotten out of hand.

72

Steve Greene KA1LM

sgreene@access.digex.net

From owner-qrp-1@Lehigh.EDU Fri Mar 22 22:06:16 1996
From: "Brian.Buydens@usask.ca" <buydens@duke.usask.ca>
Subject: [6025] Re: It sure is Friday out! (take II)
Message-ID: <Pine.OSF.3.91.960322142846.4833A-100000@duke.usask.ca>

There once was an OM named Drew
whose interest in ham was quite new
when asked for a limerick
that was not dumb or sick
the new ham replied QRU!

...it's Friday ...

Brian Buydens
Department of Computing Services
University of Saskatchewan
email: Brian.Buydens@usask.ca
VE5RDV

There was a young poet named Dan,
Whose poetry never would scan.
When told this was so,
He said, "Yes, I know.

From owner-qrp-1@Lehigh.EDU Fri Mar 22 22:06:16 1996
From: cummings.jim@ic.gc.ca (Cummings, Jim: DGRB)
Subject: [6027] RE: It sure is Friday out! (take II)
Message-ID: <1996Mar22.133558.1255.598536@mspost.ic.gc.ca>

There once was a ham named Joe,
Who with computer gave it a go,
He gave it a tick
and tried a limerick
but after four lines, no mo'

73 and live better digitally
Jim, VE3XJ

From: JEVERHART
Subject: It sure is Friday out! (take II)
From owner-qrp-1@Lehigh.EDU Fri Mar 22 22:06:16 1996
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
Subject: [6039] Re: It sure is Friday out! (take II)
Message-ID: <Pine.SOL.3.91.960322200531.27084A-100000@utkux4.utcc.utk.edu>

Joe,

Except, they ain't limericks--which use the 3-3-2-2-3 scheme.

Truer to form:

There was an old timer named Joe
Who brought his poems to show.
They got worse and still worse,
'Cuz he said them in Morse.
Which don't rhyme, as we all know.

-73-

LB, W4RNL

to which Joe might reply:

Hey, LB, W4RNL
A good poem I'll bet you can't tell.
So I'll cheer "Hip hoo-rah,
di-di-dah, di-di-dah"
And all critics can go straight to h--l.

or something more original.

From owner-qrp-1@Lehigh.EDU Fri Mar 22 22:06:16 1996
From: prvalko <prvalko@oakland.edu>
Subject: [6040] Re: It sure is Friday out! (take II)
Message-ID: <Pine.OSF.3.91.960322212019.7361A-100000@saturn.acs.oakland.edu>

On Fri, 22 Mar 1996, L. B. Cebik wrote:

>
> Except, they ain't limericks--which use the 3-3-2-2-3 scheme.
>
> Truer to form:
>
> There was an old timer named Joe
> Who brought his poems to show.
> They got worse and still worse,
> 'Cuz he said them in Morse.
> Which don't rhyme, as we all know.

In this part of the country, Worse does not rhyme with Morse. :-)

73! =paul= wb8zjl

From owner-qrp-1@Lehigh.EDU Fri Mar 22 22:06:16 1996
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
Subject: [6041] Re: It sure is Friday out! (take II)
Message-ID: <Pine.SOL.3.91.960322214940.1336B-100000@utkux4.utcc.utk.edu>

On Fri, 22 Mar 1996, prvalko wrote:

>
> On Fri, 22 Mar 1996, L. B. Cebik wrote:
> >
> > Except, they ain't limericks--which use the 3-3-2-2-3 scheme.
> >
> > Truer to form:
> >
> > There was an old timer named Joe
> > Who brought his poems to show.
> > They got worse and still worse,
> > 'Cuz he said them in Morse.
> > Which don't rhyme, as we all know.
>
> In this part of the country, Worse does not rhyme with Morse. :-)
>
> 73! =paul= wb8zjl
>

Which is what line 5 says, in a double play--as they say in baseball.

It really must be friday, but did not know the 13th came on the 22nd.

-73-

LB, W4RNL

From owner-qrp-1@Lehigh.EDU Fri Mar 22 22:06:16 1996
From: Larry East <LVE1@inel.gov>
Subject: [6002] RE: More audio from LM380/40-9er
Message-ID: <2.2.16.19960322165642.149fa244@134.20.32.17>

>From a recent posting:
>I tried the positive feedback circuit with 470K/10K resistors.
>This is absolutely a positive feedback, save your ears and bypass
>the resistor to ground.
>Didn't oscilate after that, but could not tell the difference
>in the audio gain.

>Interested to know what other people are getting.
>
>73 DE ORI AC6AN
>

I looked up the application note mentioned by Paul, and this is a bad choice of resistors -- it provides a positive gain of over 1000!

The normal LM380 gain is 50; maximum recommended gain with the positive feedback scheme is 300.

1Meg from output to positive input and 15K from positive input to ground gives a gain of 200.

1Meg from output to positive input and 10K from positive input to ground gives a gain of 100 (you could also use 470K and 4.7K).

In each case, a .001 cap from the positive input to ground will provide a high frequency roll-off in the 5kHz - 10kHz range and should provide stability without affecting gain (use 470pF with the 4.7K resistor alternate). If you use a large enough bypass cap (say 0.1 or so), then NO increase in gain will occur.

I haven't tried this yet -- just going by what the National Semiconductors application note (AN-69) says (its the very last item in the note).

72, Larry W1HUE

From owner-qrp-l@Lehigh.EDU Fri Mar 22 22:06:16 1996
From: WD6BOR@aol.com
Subject: [5991] Re: NC-40 Final
Message-ID: <960322021054_452108744@emout09.mail.aol.com>

Niel and the group,

Buckeye Electronics
10213 Columbus Grove Road
Bluffton, OH 45817

They have an email address also because I downloaded their catalog but I'll be darned if I can find it right now. Good prices and service on 2SC799, NE602AN and other QRP related parts. Phone/FAX is 419-358-8945. I partially kitted 20 40-9ers as well as stocked up on parts.

Darrel, WD6BOR

From owner-qrp-1@Lehigh.EDU Fri Mar 22 22:06:16 1996
From: aa7qy@primenet.com (Roger Hightower)
Subject: [6029] Re: R5 CONFUSION!
Message-ID: <199603222137.0AA25940@usr4.primenet.com>

At 01:57 PM 3/22/96 CST, David Kreinberg wrote:

>snip<

> In the bit I've read and know about verticals,
> most folks say that putting a vertical high
> in the air does little or nothing to improve
> antenna performance, so mounting near or on the
> ground is honky-dory. Is this not true? I'd hate
> to spend a whole day setting this antenna up on the
> ground, only to kick myself because it should've
> gone on my chimney!

All I can say here is that I've used one mounted 8" above the ground for nearly 5 years now, and it works fine.

> Also, even tho the R5 has the 4 short counter-
> poise wires at the base, will adding radials
> add, hurt, or do nothing for this type of antenna?
>

A quote from the manual: "Although the R5 will operate in almost any location, it will perform best if it is mounted vertically and located in the clear away from surrounding objects such as buildings, trees, power lines, towers, guy wires, antennas and metallic objects. The r% should not be attached to a ground radial system. Failure to heed these points will possibly degrade performance, detune the antenna and increase VSWR". I tried a ground radial system, and it did in fact detune the antenna, and no amount of fiddling could fix it. Took the ground radials away and all was well.

This is also a great Field Day antenna, because it is self-contained and can be mounted anywhere. A friend, KA7AKJ, mounts one directly on the roof of his motor home while camping and gets great results.

I'm perfectly satisfied with mine, since I can't have a tower or any visible

antenna.

Couldn't ask for a better performer under these conditions. It's been my primary antenna during the fox hunts, too.

72/73, de Roger AA7QY

NorCal 1099 CoQRP 176 QRP-L 62 G-QRP 9081 ARCI 8946 NE-QRP 383

From owner-qrp-l@Lehigh.EDU Fri Mar 22 22:06:16 1996
From: "James C. Owen, III" <owen@apollo.eeel.nist.gov>
Subject: [6010] RE: R5 INSTALL.
Message-ID: <49322.owen@apollo.eeel.nist.gov>

In message Fri, 22 Mar 1996 13:38:21 -0400 (EDT),
"James C. Owen, III" <owen@apollo.eeel.nist.gov> writes:

> In message Fri, 22 Mar 96 06:31:30 CST,
> "David Kreinberg" <kreinbd@ccgate.dl.nec.com> writes:
>
>
>>
>> Folks:
>>
>> As mentioned earlier, I am going to get a
>> Cushcraft R5 vertical soon.
>>
>>
> This seems like a resonable choice.
>
>
>> I've never installed a "real" vertical before
>> (made some homebrews out of wood, tubing, etc.),
>> so I'm not sure how to install the critter.
>>
>>
>
>
>> I will be ground mounting the antenna in my back yard.
>> My plan is to dig a hole and cement a 5' pipe so that
>> 3' are in the ground/cement and 2' are on top of the
>> soil. I'll mount the antenna to the exposed pipe with
>> U-bolts. I'm not sure if the thing comes with a few
>> radials, but adding more is no problem and I can bury
>> as many needed to make it more effective.

>>
>
> An excellent method--Mine is very similar but I don't have but about
> 18-20 inches in the ground and it once held a 3 ele 15m beam on a 10ft
> pipe for several years with no problem so you may not need 3' in the
> ground unless the soil is very sandy. Add as many radials as you can and
> make the lengths somewhat different say from 30 feet for the 40 meter
> band to 10ft for the 10 meter band. However, all of the radials no matter
> the length will help on all of the bands length is not real critical.
>
>
> Also, is guying
>> necessary for the R5? I think the height is about 25'. We
>> can get very high winds here in Texas, so this is probably
>> a good idea, yes?
>>
>
> It might be necessary if the sway is excessive, you don't want to put too
> much stress on the traps and any weak points. Don't use wire use nylon
> rope or even monofilament fishing line would work fine. You're not
> trying to hold the vertical up just keep it from swaying too much in the
> wind.
>
>>
>> If this plan doesn't sound good, please let me know. All
>> ideas are welcome.
>>
>>
>
> It sounds like a great plan Dave. Hope to work you some day.
>
>
>> Thanks and 72 de Dave KK5HA
>>
>>
> 72/73 Jim K4CGY Qrp-1 #72
>

From owner-qrp-1@Lehigh.EDU Fri Mar 22 22:06:16 1996
From: aa7qy@primenet.com (Roger Hightower)
Subject: [6020] Re: R5 INSTALL.
Message-ID: <199603221953.MAA06358@usr5.primenet.com>

At 06:31 AM 3/22/96 CST, David Kreinberg wrote:
>snip>

> I will be ground mounting the antenna in my back yard.
> My plan is to dig a hole and cement a 5' pipe so that
> 3' are in the ground/cement and 2' are on top of the
> soil. I'll mount the antenna to the exposed pipe with
> U-bolts. I'm not sure if the thing comes with a few
> radials, but adding more is no problem and I can bury
> as many needed to make it more effective. Also, is guying
> necessary for the R5? I think the height is about 25'. We
> can get very high winds here in Texas, so this is probably
> a good idea, yes?
>

The Cushcraft R-5 and R-7 verticals don't need ground radials. The antennas come with a "radial" system that is an integral part. Recommended height above ground is 12" minimum, but they will work much lower than that. Mine is mounted in a group of trees with the transformer only 8" above ground, so the CC&R cops won't see it, and works fine.

Hope you get the manual. If not, you tune from the bottom up (10 M first, then each band until you reach 20M. If you tune from the top down, you'll never get done, because each section interacts with the next lower one(s)) This is where the Autek RF-1 or one of the MFJ or AEA SWR meters really shines. Makes a short job of it.

Does the antenna work? Yup. I have DXCC (2 modes), WAC (3 modes), WAS (2 modes) on mine, and the antenna police are none the wiser. BTW, the R-5 WILL load fine on 30M, so you can play with it this summer.

72/73, de Roger, AA7QY

NorCal 1099 CoQRP 176 QRP-L 62 G-QRP 9081 ARCI 8946 NE-QRP 383

From owner-qrp-l@Lehigh.EDU Fri Mar 22 22:06:16 1996
From: bhopkins@polarnet.com (Bruce Hopkins)
Subject: [5989] Re: Speaking at EMARC meeting Friday night (Los Altos, CA)
Message-ID: <v01530501ad77fd9c4b86@[204.119.24.147]>

>Hi gang,
>
>I'll be there, gesticulating wildly, promoting QRP, and
>showing some color renderings of what may be the next Wilderness kit.
>(Hint: it's 2 x 5 x 5 inches, exploits the perceptual effects of
>crystalline chemical processes, and talks to you.)
>73,
>Wayne

>N6KR

Wayne,

I sure hope that after your debut tomorrow you will be uploading the color pics to the QRP-L resource page so we can all get a look see...

72/73/oo's - Bruce * KL7JAF

QRP-L #380 QRP-ARCI #9061 G-QRP #9181

Norcal #???? ISSB #14548

McPig #003 TFO - 359

E-Mail: bhopkins@polarnet.com

BBS: KL7JAF@KL7GNG.#NAK.AK.USA.NOAM

Snail Mail: B. Hopkins / P.O. Box 10079 / Fairbanks, AK. / 99710

From owner-qrp-l@Lehigh.EDU Fri Mar 22 22:06:16 1996

From: WD6BOR@aol.com

Subject: [5990] Re: Surplus Crystal Exchange

Message-ID: <960322021048_452108709@emout08.mail.aol.com>

Thom,

I've just collected several thousand crystals from the estate of a local ham who did design work (commercially) for over fifty years. They cover military and commercial frequencies as well as some ham. They are mounted in FT243, CR1A/AR and older holders, but may be usable for fundamental frequency operation, mixers or possibly for crystal filters.

I also have three large boxes of air variable caps as well as miscellaneous mica and transmitting caps.

I'll have all this and more at the Valley of the Moon ARC hamfest and

swapmeet in Sonoma, CA on Sunday April 21.

It may well take me until then to sort things out but let me know if you have any special frequency needs.

Darrel, WD6BOR

From owner-qrp-1@Lehigh.EDU Fri Mar 22 22:06:16 1996
From: tmh@world.std.com
Subject: [5995] Re: SWR bridge
Message-ID: <Pine.3.89.9603220900.B1798-01000000@world.std.com>

I've been getting my Cascade ready for hiking in the White Mountains of New Hampshire and would also like to put an SWR meter on it. Got a 100microA meter sitting around just waiting.

Could somebody please explain what's involved in a bridge circuit?

Thanks.

Tim Huntington, N1PAZ
tmh@world.std.com

From owner-qrp-1@Lehigh.EDU Fri Mar 22 22:06:16 1996
From: "James C. Owen, III" <owen@apollo.eeel.nist.gov>
Subject: [5994] RE: Transmatch
Message-ID: <33258.owen@apollo.eeel.nist.gov>

In message Thu, 21 Mar 1996 21:19:27 +0000,
"TimCook" <timcook@erinet.com> writes:

> specifically the Johnson Transmatch. M
> Is it normal for the built-in switching to require 115v on
> the relay in order to use it just as a matchbox, and not the rx
> control etc? Mine seems to be wired that way, and wondered if that
> was normal, I would prefer it to be the opposite. I really don't want
> to rewire or modify it. Anyone have info?
> Thanks
> Tim NZ8J.

>

Hi Tim,

The matchbox was designed at a time when AM and separate receivers and transmitters were the norm. This was the antenna switching circuit for the separate receiver and transmitter and since the transmitter was the one on the least amount of time you applied 115v to switch to the transmitter side and took the rf to the receiver through the terminal strip when the relay was not energized. Since today we use mostly transceivers or rigs with built in antenna switching this circuit is not needed. Short out the relay so that the RF goes to the coax connector at all times and forget about any connection to the terminal strip. You can take the relay out altogether but it's easier just to solder a jumper across the contacts. 73 Jim K4CGY

From owner-qrp-1@Lehigh.EDU Fri Mar 22 22:06:16 1996

From: herr@ridgecrest.ca.us (Michael Herr)

Subject: [5998] Re>Transmatch

Message-ID: <v01530500ad79644ba235@[199.120.150.52]>

>I have been following the discussion on the antenna tuners and
>specifically the Johnson Transmatch. I have a 250 watt version that I
>thought I would try out on a zepp fed with 450 ohm ladder line. My
>question is for someone who is familiar with that particular
>matchbox. Is it normal for the built-in switching to require 115v on
>the relay in order to use it just as a matchbox, and not the rx
>control etc? Mine seems to be wired that way, and wondered if that
>was normal, I would prefer it to be the opposite. I really don't want
>to rewire or modify it. Anyone have info?

>Thanks

>Tim NZ8J.

Tim,

I used a 1000watt version years ago as a novice. I recall having to do a quick mod to the relay jumpering so that I could use the transmatch. I also recall the 10 jillion screws to take the cover off too HI HI.

Mike WA6ARA

From owner-qrp-1@Lehigh.EDU Fri Mar 22 22:06:16 1996

From: N5EM@aol.com

Subject: [6001] Re: tuners

Message-ID: <960322111352_358753660@emout05.mail.aol.com>

In a message dated 96-03-22 07:26:22 EST, you write:

> Wow! this thing will tune just about anything!

> 73 Brad WB8YGG
>
>

You bet. Try this experiment. Take a 100 ohm, 5 watt resistor. Attach it to the coax connector. Tune the tuner up for a flat response. See how many contacts you can make.

Take a 2 ft. piece of wire. Connect it to the long wire antenna output. Carefully tune it up with your tuner. Don't quit until you get it flat (it will be tricky). How many contacts can you make?

Final test. Disconnect ALL external antenna connections. Tune up the tuner for minimum reflected power. (Hint. You are tuning up the piece of wire from the output of the tuner to the banana jack on the rear panel - the piece of wire that is INSIDE the tuner box). Again, don't give up. It's a tricky adjustment. Got it? Now, guess how many contacts you can make with this arrangement :-)

The point? Tuners are great but often your settings will take a substantial part of your power and dissipate it within the tuner box as losses.

Tuners are handy tools but, like everything else, use them wisely and try to understand what is going on inside them.

72 (I have an MFJ tuner too!)
Ed Manuel, N5EM
n5em@aol.com

From owner-qrp-1@Lehigh.EDU Fri Mar 22 22:06:16 1996
From: Monte Stark <ku7y@sage.dri.edu>
Subject: [5999] Re: Variometer Construction
Message-ID: <Pine.SUN.3.90.960322080015.3255B-1000000@vortex.sage.dri.edu>

OK folks,

Who will have a good construction article ready for the Quarterly this coming July?

You have about 6 weeks to get it done.....nice little tuner would be good.....

Article should have some background,(and light math only), with references to all the heavy math! Good drawings, (we might be

able to help with this), use parts that everyone can find and make it fun!

The clock is ticking, (or is that tocking?).....cul,

73, Ron,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada.....
....QRP-L #17....ARRL....NorCal #330.....NRA LIFE.....

From owner-qrp-l@Lehigh.EDU Fri Mar 22 22:06:16 1996
From: Steven Wilson <randyw@crl.com>
Subject: [6003] Re: Variometer Construction
Message-ID: <Pine.SUN.3.91.960322084041.4783A-100000@crl8.crl.com>

Hi Monte, I can draw up the mechanical layout and electrical tests on one that can be used in a L match if you think someone would be interested. What format is required for the QQ ? And to whom would you send the information.

There are not hard to build. If you use a hollow insulated shaft for rotating the internal coil then it is possible to bring the wires out via the shaft. The maximum inductance is 4 times the inductance of one coil if the two coils have equal inductance. Minimum is based on how good job you do in building equal coil and keeping down the wiring inductance.

de stan ak0b
e-mail via randyw@crl.com